

ABSTRACT OF THE DISCLOSURE

A wireless communication device, a wireless communication system using the same, and a communication method therefor are provided. When a wireless communication device operated as a slave intends to communicate 5 with other slave communication devices, the communication-intending slave device transmits a packet where an address of a destination slave device is recorded in a header region as a destination address to the wireless communication device operated as a master. When the address recorded in the header region of the packet is an address of another slave device, not the 10 communication -intending slave device, the master device transmits the packet to the wireless communication device of the destination address. Accordingly, the communication is performed using the address recorded in the header region of the transmitted packet as the destination address. As a result, peer-to-peer communication between the slave devices is performed, without 15 increasing a data processing load in the Bluetooth communication.